LNP™ LUBRILOY™ COMPOUND N2000

DESCRIPTION

LNP LUBRILOY N2000 compound is based on unfilled Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS). Added features of this grade include excellent BSR (Buzz, Squeak, Rattle) performance. Custom colorable, low gloss, internally lubricated without silicones or fluorinated polymers. Good impact and flow properties.

GENERAL INFORMATION	
Features	Wear resistant, Impact resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate + ABS (PC+ABS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive EV Batteries, Automotive Interiors
Consumer	Sport/Leisure, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets

TYPICAL PROPERTY VALUES

Revision 20260709

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Modulus, 1 mm/min	1948	MPa	ISO 527
Tensile Stress, yield, 50 mm/min	43	MPa	ISO 527
Tensile Stress, break, 50 mm/min	42	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	5	%	ISO 527
Flexural Modulus, 2 mm/min	1990	MPa	ISO 178
IMPACT [1]			
Izod Impact, notched 80*10*4 +23°C	37	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	16	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	31	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	16	kJ/m²	ISO 179/1eA
Izod Impact, notched, 23°C	39	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D648
PHYSICAL [1]			
Density	1.11	g/cm³	ISO 1183
Dynamic COF	0.37	-	ASTM D3702 Modified: Manual
Wear Factor Washer	85	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Specific Gravity	1.12	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.12	%	ASTM D570
Mold Shrinkage, flow [2]	0.4 – 0.6	%	SABIC method
Mold Shrinkage, xflow [2]	0.4 – 0.6	%	SABIC method

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING [3]			
Drying Temperature	80 – 110	°C	
Drying Time	3 – 4	Hrs	
Maximum Moisture Content	0.012 – 0.02	%	
Melt Temperature	240 – 265	°C	
Rear - Zone 1 Temperature	240 – 265	°C	
Middle - Zone 2 Temperature	240 – 265	°C	
Front - Zone 3 Temperature	240 – 265	°C	
Nozzle Temperature	240 – 265	°C	
Mold Temperature	60 – 90	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	20 – 100	rpm	
Vent Depth	0.038 – 0.051	mm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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